## AMENDMENTS TO THE CLAIMS

## Claims 1-7 (canceled)

8. (New) A method of prevention or treatment of a disorder in a mammal, the said disorder being selected from the group consisting of toxic effects of TNF-α, alcohol-induced hepatitis, and cachexia, comprising administering to said mammal an effective amount of a pteridine derivative having the structural formula (I):

$$R_1$$
  $X$   $N$   $R_3$ 

 $R_2$  N N  $R_4$  wherein X represents an oxygen atom or a group with the formula  $S(O)_m$  wherein m is an integer from 0 to 2, or a group with the formula NZ and wherein:

- R<sub>1</sub> is selected from the group consisting of methyl, ethyl, isopropyl and pentyl;
- Z is a group independently defined as R<sub>1</sub> or Z is hydrogen or the group NZ together with R<sub>1</sub> is either hydroxylamino or an optionally substituted heterocyclic group containing at least one nitrogen atom;
- R<sub>2</sub> is selected from the group consisting of amino; acylamino;
- $R_4$  is an atom or a group selected from the group consisting of hydrogen; halogen;  $C_{1-7}$ alkyl;  $C_{2-7}$  alkenyl;  $C_{2-7}$  alkynyl; halo  $C_{1-7}$  alkyl; carboxy  $C_{1-7}$  alkyl; acetoxy  $C_{1-7}$  alkyl; carboxyaryl; C<sub>1-7</sub> alkoxy; C<sub>3-10</sub> cycloalkoxy; aryloxy; arylalkyloxy; oxyheterocyclic; heterocyclic-substituted alkyloxy; thio C<sub>1-7</sub> alkyl; thio C<sub>3-10</sub> cycloalkyl; thioaryl; thioheterocyclic; arylalkylthio; heterocyclic-substituted alkylthio; amino; hydroxylamino; mercapto-amino; acylamino; thioacylamino; alkoxyamino; thioalkylamino; acetal; thioacetal; carboxylic acid; carboxylic acid esters, thioesters, halides, anhydrides, amides and thioamides; thiocarboxylic acid; thiocarboxylic acid esters, thioesters, halides, anhydrides, amides and thioamides; hydroxyl; sulfhydryl; nitro; cyano; carbamoyl; thiocarbamoyl, ureido; thio-ureido; alkylamino;

cycloalkylamino; alkenylamino; cycloalkenylamino; alkynyl-amino; arylamino; arylalkylamino; hydroxyalkylamino; mercapto-alkylamino; heterocyclic amino; heterocyclic-substituted alkylamino; oximino; alkyloximino; hydrazino; alkylhydrazino; phenylhydrazino; cysteinyl acid, esters, thioesters, halides, anhydrides, amides and thioamides thereof; aryl groups optionally substituted with one or more substituents selected from the group consisting of halogen, C<sub>1-7</sub> alkyl, C<sub>1-7</sub> alkoxy; optionally substituted heterocyclic radicals; aromatic or heterocyclic substituents substituted with an aliphatic spacer between the pteridine ring and the aromatic or heterocyclic substituent, whereby said aliphatic spacer is a branched or straight, saturated or unsaturated aliphatic chain of 1 to 4 carbon atoms; branched or straight, saturated or unsaturated aliphatic chains of 1 to 7 carbon atoms; and

- R<sub>3</sub> is an atom or a group defined as R<sub>4</sub>, or R<sub>3</sub> together with R<sub>4</sub> forms a homocyclic or heterocyclic radical;

and/or being a pharmaceutically acceptable addition salt thereof and/or a stereoisomer thereof and/or a mono- or a di-*N*-oxide thereof and/or a solvate and/or a dihydro- or tetrahydropteridine derivative thereof.

- 9. (New) A method according to claim 8, wherein R<sub>4</sub> is hydrogen or methoxy.
- 10. (New) A method according to claim 8, wherein  $R_4$  is hydrogen and wherein  $R_2$  is amino.
- 11. (New) A method according to claim 8, wherein R<sub>3</sub> is 3-thienyl, 2-thienyl or a phenyl group with one or more substituents.
- 12. (New) A method according to claim 8, wherein  $R_2$  is amino and wherein  $R_3$  is 3-thienyl, 2-thienyl or a phenyl group with one or more substituents.

- 13. (New) A method according to claim 8, wherein  $R_3$  is 3-thienyl, 2-thienyl or a phenyl group with one or more substituents, and wherein  $R_4$  is hydrogen.
- 14. (New) A method according to claim 8, wherein R<sub>2</sub> is amino and wherein R<sub>3</sub> is 3-thienyl, 2-thienyl or a phenyl group with one or more substituents, and wherein R<sub>4</sub> is hydrogen.
- 15. (New) A method according to claim 8, wherein R<sub>3</sub> is a phenyl group with one or more substituents each independently selected from the group consisting of fluoro, methoxy, ethoxy, trifluoromethyl, dimethylamino, chloro, cyano, methyl, ethyl, carboxymethyl, methylthio, dimethylcarboxamido, diethylcarboxamido and methylcarboxylate.
- 16. (New) A method according to claim 8, wherein R<sub>4</sub> is hydrogen and wherein R<sub>3</sub> is a phenyl group with one or more substituents each independently selected from the group consisting of fluoro, methoxy, ethoxy, trifluoromethyl, dimethylamino, chloro, cyano, methyl, ethyl, carboxymethyl, methylthio, dimethylcarboxamido, diethylcarboxamido and methylcarboxylate.
- 17. (New) A method according to claim 8, wherein R<sub>2</sub> is amino, wherein R<sub>4</sub> is hydrogen and wherein R<sub>3</sub> is a phenyl group with one or more substituents each independently selected from the group consisting of fluoro, methoxy, ethoxy, trifluoromethyl, dimethylamino, chloro, cyano, methyl, ethyl, carboxymethyl, methylthio, dimethylcarboxamido, diethylcarboxamido and methylcarboxylate.

- 18. (New) A method according to claim 8, wherein R<sub>3</sub> is selected from the group consisting of 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, 3,4-difluorophenyl, 4-dimethylaminophenyl, 4-trifluoromethylphenyl, 3,4-dichlorophenyl, 4-cyanophenyl, 4-ethoxyphenyl, 4-fluorophenyl, 4-ethylphenyl, 3-fluoro-4-methylphenyl, 3-methyl-4-methoxyphenyl, 3,4-dimethylphenyl, 3-chloro-4-trifluoromethylphenyl, 4-acetylphenyl, 3,4-dimethoxyphenyl, 4-tolyl, 4-chlorophenyl and 3,4,5-trimethoxyphenyl.
- 19. (New) A method according to claim 8, wherein R<sub>2</sub> is amino, and wherein R<sub>3</sub> is selected from the group consisting of 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, 3,4-difluorophenyl, 4-dimethylaminophenyl, 4-trifluoro-methylphenyl, 3,4-dichlorophenyl, 4-cyanophenyl, 4-ethoxyphenyl, 4-fluorophenyl, 4-ethylphenyl, 3-fluoro-4-methylphenyl, 3-methyl-4-methoxyphenyl, 3,4-dimethylphenyl, 3-chloro-4-trifluoromethylphenyl, 4-acetylphenyl, 3,4-dimethoxyphenyl, styryl, 4-tolyl, 4-chlorophenyl and 3,4,5-trimethoxyphenyl.
- 20. (New) A method according to claim 8, wherein R<sub>4</sub> is hydrogen, and wherein R<sub>3</sub> is selected from the group consisting of 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, 3,4-difluorophenyl, 4-dimethylaminophenyl, 4-trifluoro-methylphenyl, 3,4-dichlorophenyl, 4-cyanophenyl, 4-ethoxyphenyl, 4-fluorophenyl, 4-ethylphenyl, 3-fluoro-4-methylphenyl, 3-methyl-4-methoxyphenyl, 3,4-dimethylphenyl, 3-chloro-4-trifluoromethylphenyl, 4-acetylphenyl, 3,4-dimethoxyphenyl, styryl, 4-tolyl, 4-chlorophenyl and 3,4,5-trimethoxyphenyl.
- 21. (New) A method according to claim 8, wherein  $R_2$  is amino, wherein  $R_4$  is hydrogen, and wherein  $R_3$  is selected from the group consisting of 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, 3,4-difluorophenyl, 4-dimethylaminophenyl, 4-

trifluoromethylphenyl, 3,4-dichlorophenyl, 4-cyanophenyl, 4-ethoxyphenyl, 4-fluorophenyl, 4-ethylphenyl, 3-fluoro-4-methylphenyl, 3-methyl-4-methoxyphenyl, 3,4-dimethylphenyl, 3-chloro-4-trifluoromethylphenyl, 4-acetylphenyl, 3,4-dimethoxyphenyl, styryl, 4-tolyl, 4-chlorophenyl and 3,4,5-trimethoxyphenyl.

- 22. (New) A method according to claim 8, wherein:
  - X is NZ,
  - Z is selected from the group consisting of hydrogen, methyl, ethyl, n-propyl and benzyl; and
  - $R_1$  is selected from the group consisting of methyl, ethyl, n-propyl and benzyl.
- 23. (New) A method according to claim 8, wherein X is NZ and wherein the group NZ together with R<sub>1</sub> is selected from the group consisting of tetra-hydropyridinyl, hydroxylamino, morpholinyl, piperidinyl, piperazinyl, 1,2,4-triazolyl and N-methylpiperazinyl.
- 24. (New) A method according to claim 8, wherein R<sub>2</sub> is amino, wherein R<sub>4</sub> is hydrogen, wherein X is NZ and wherein the group NZ together with R<sub>1</sub> is selected from the group consisting of tetrahydropyridinyl, hydroxylamino, morpholinyl, piperidinyl, piperazinyl, 1,2,4-triazolyl and N-methyl-piperazinyl.
- 25. (New) A method according to claim 8, wherein the pteridine derivative is administered in combination with one or more pharmaceutically acceptable carriers or excipients.

- 26. (New) A method according to claim 8, wherein the pteridine derivative is in the form of a hydrate or a solvate with an organic solvent selected from the group consisting of alcohols, ketones and esters.
- 27. (New) A method according to claim 8, wherein the pteridine derivative is a compound selected from the group consisting of:
  - 2-amino-4-ethoxypteridine
  - 2-amino-4-ethoxy-6-chloro-pteridine
  - 2-amino-4-ethoxy-6-(4-methoxyphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(2-methoxyphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(3-methoxyphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(3,4-difluorophenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-dimethylaminophenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-trifluoromethylphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(2-thienyl)-pteridine
  - 2-amino-4-ethoxy-6-(3-thienyl)-pteridine
  - 2-amino-4-ethoxy-6-(3,4-dichlorophenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-cyanophenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-ethoxyphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-fluorophenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-ethylphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-acetylphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(3-fluoro-4-methylphenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-methylthiophenyl)-pteridine
  - 2-amino-4-ethoxy-6-(4-N,N-dimethylbenzamido)-pteridine
  - 2-amino-4-isopropoxypteridine
  - 2-amino-4-isopropoxy-6-chloropteridine

- 2-amino-4-isopropoxy-6-(3-methyl-4-methoxyphenyl)-pteridine
- 2-amino-4-isopropoxy-6-(3,4-dimethylphenyl)-pteridine
- 2-amino-4-isopropoxy-6-(3-chloro-4-trifluoromethylphenyl)-pteridine
- 2-amino-4-isopropoxy-6-(3-chlorol-4-fluorophenyl)-pteridine
- 2-amino-4-isopropoxy-6-(4-N,N-diethylbenzamido)-pteridine
- 2-amino-4-isopropoxy-6-(4-trifluoromethylphenyl)-pteridine
- 2-amino-4-isopropoxy-6-(3,4-difluorophenyl)-pteridine
- 2-amino-4-isopropoxy-6-(4-methoxyphenyl)-pteridine
- 2-amino-4-isopropoxy-6-(4-ethoxyphenyl)-pteridine
- 2-amino-4-isopropoxy-6-(4-N,N-dimethylbenzamido)-pteridine
- 2-amino-4-isopropoxy-6-(3-thienyl)-pteridine
- 2-amino-4-isopropoxy-6-(4-cyanophenyl)-pteridine
- 2-amino-4-isopropoxy-6-(4-benzoic acid methyl ester)-pteridine
- 2-amino-4-isopropoxy-6-(4-acetylphenyl)-pteridine
- 2-amino-4-isopropoxy-6-(3,4-dimethoxyphenyl)-pteridine
- 2-amino-4-ethylthio-6-(3,4-dimethoxyphenyl)-pteridine
- 2-amino-4-isopropylthio-6-(3,4-dimethoxyphenyl)-pteridine
- 2-amino-4-pentoxy-6-styrylpteridine,
- 2-amino-4-n-pentoxy-6-(1,2-dibromo-2-phenylethyl)-pteridine,
- **-** 2-amino-4-methoxy-6-styryl-7-methoxypteridine,
- 2-amino-4-dimethylamino-6-phenylpteridine,
- 2-amino-4-dimethylamino-6-(4-tolyl)pteridine,
- 2-amino-4-dimethylamino-6-(4-methoxyphenyl)pteridine,
- 2-amino-4-diethylamino-6-phenylpteridine,
- 2-amino-4-diethylamino-6-(4-chlorophenyl)pteridine,
- 2-amino-4-diethylamino-6-(4-methoxyphenyl)pteridine,
- 2-amino-4-diethylamino-6-(3,4-dimethoxyphenyl)pteridine,

- 2-amino-4-dipropylamino-6-phenylpteridine,
- 2-amino-4-dipropylamino-6-(4-chlorophenyl)pteridine,
- 2-amino-4-dipropylamino-6-(4-methoxyphenyl)pteridine,
- 2-amino-4-dipropylamino-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-morpholino-6-phenylpteridine,
- 2-amino-4-morpholino-6-(4-chlorophenyl)pteridine,
- 2-amino-4-morpholino-6-(4-methoxyphenyl)pteridine,
- 2-amino-4-morpholino-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-piperidino-6-phenylpteridine,
- 2-amino-4-piperidino-6-(4-chlorophenyl) pteridine,
- 2-amino-4-piperidino-6-(4-methoxyphenyl)pteridine,
- 2-amino-4-piperidino-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-N-methylpiperazino-6-phenylpteridine,
- 2-amino-4-N-methylpiperazino-6-(4-chlorophenyl)pteridine,
- 2-amino-4-N-methylpiperazino-6-(4-methcxyphenyl)pteridine,
- 2-amino-4-methylpiperazino-6-(3,4-dimetnoxyphenyl)pteridine,
- 2-amino-4-pyrrolidino-6-(4-methoxyphenyl)pteridine,
- 2-amino-4-piperazino-6-phenylpteridine,
- 2-amino-4-piperazino-6-(4-chlorophenyl)pteridine,
- 2-amino-4-piperazino-6-(4-methoxyphenyl)pteridine,
- 2-amino-4-piperazino-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-morpholino-6-(3,4,5-trimethoxyphenyl)pteridine,
- 2-amino-4-morpholino-6-(3,4-formylidene-3,4-dihydroxyphenyl)pteridine,
- 2-amino-4-dimethylamino-6-(3,4-formylidene-3,4-dihydroxyphenyl) pteridine,
- 2-amino-4-pyrrolidino-6-(3,4,dimethoxyphenyl)pteridine,
- 2-amino-4-dimethylamino-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-dimethylamino-6-methylpteridine,

- 2-amino-4-ethoxy-6-phenylpteridine,
- 2-amino-4-propylamino-6-phenylpteridine,
- 2-amino-4-propylamino-6-(3,4-dimethoxyphenyl)pteridine,
- 2-acetamido-4-isopropoxy-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-ethoxy-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-(1,2,3,6-tetrahydropyridinyl)-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-ethoxy-pteridine,
- 2-amino-4-ethoxypteridine-N<sup>8</sup>-oxide,
- 2-amino-4-isopropoxypteridine-N<sup>8</sup>-oxide,
- 2-amino-6-chloro-4-ethoxypteridine,
- 2-amino-6-chloro-4-isopropoxypteridine,
- 2-amino-6-(p-methoxyphenyl)-4-ethoxy-pteridine;
- 2-amino-6-(o-methoxyphenyl)-4-ethoxy-pteridine;
- 2-amino-6-(m-methoxyphenyl)-4-ethoxy-pteridine;
- 2-amino-6-(3,4-difluorophenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-dimethylaminophenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-trifluoromethylphenyl)-4-ethoxy-pteridine;
- 2-amino-6-(2-thienyl)-4-ethoxy-pteridine;
- 2-amino-6-(3-thienyl)-4-ethoxy-pteridine;
- 2-amino-6-(3,4-dichlorophenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-cyanophenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-ethoxyphenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-fluorophenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-ethylphenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-acetylphenyl)-4-ethoxy-pteridine;
- 2-amino-6-(3-methyl-4-fluorophenyl)-4-ethoxy-pteridine;
- 2-amino-6-(p-thiomethylphenyl)-4-ethoxy-pteridine;

- 2-amino-6-(p-N,N-dimethylbenzamido)-4-ethoxy-pteridine;
- 2-amino-6-(3,4-dimethoxyphenyl)-4-ethoxy-pteridine,
- 2-amino-6-(3-methyl-4-methoxyphenyl)-4-isopropoxypteridine;
- 2-amino-6-(3,4-dimethylphenyl)-4-isopropoxypteridine;
- 2-amino-6-(3-chloro-4-trifluoromethylphenyl)-4-isopropoxypteridine;
- 2-amino-6-(3-chloro-4-fluorophenyl)-4-isopropoxypteridine;
- 2-amino-6-(p-N,N-diethylbenzamido)-4-isopropoxypteridine;
- 2-amino-6-(p-trifluoromethylphenyl)-4-isopropoxypteridine;
- 2-amino-6-(3,4-difluorophenyl)-4-isopropoxypteridine;
- 2-amino-6-(p-methoxyphenyl)-4-isopropoxypteridine;
- 2-amino-6-(p-ethoxyphenyl)-4-isopropoxypteridine;
- 2-amino-6-(p-dimethylbenzamido)-4-isopropoxypteridine;
- 2-amino-6-(3-thienyl)-4-isopropoxypteridine;
- 2-amino-6-(p-cyanophenyl)-4-isopropoxypteridine;
- 2-amino-6-(p-benzoic acid methyl ester)-4-isopropoxypteridine;
- 2-amino-6-(p-acetylphenyl)-4-isopropoxypteridine;
- 2-amino-6-(3,4-dimethoxyphenyl)-4-isopropoxypteridine,
- 2-amino-4-mercaptoethyl-6-(3,4-dimethoxyphenyl) pteridine;
- 2-amino-4-mercaptoisopropyl-6-(3,4-dimethoxyphenyl) pteridine,
- 2-acetylamino-4-(1,2,4-triazolyl)-6-(p-methoxyphenyl) pteridine,
- 2-acetylamino-4-(1,2,4-triazolyl)-7-(p-methoxyphenyl)pteridine,
- 2-amino-4-isopropoxy-7-(p-methoxyphenyl) pteridine,
- 2-amino-4-isopropoxy-7-(3,4-dimethoxyphenyl) pteridine,
- 2-amino-4-ethoxy-7-(3,4-dimethoxyphenyl) pteridine,
- 2-amino-4-methoxy-7-(3,4-dimethoxyphenyl) pteridine,
- 2-amino-4-(1,2,3,6-tetrahydropyridinyl)-6-(3,4-dimethoxyphenyl)pteridine,
- 2-amino-4-(diethanolamino)-6-[[3,4-(dimethoxyphenyl)]pteridine,

- 2-amino-4-thiomorpholino-6-[[3,4-(dimethoxyphenyl)]pteridine,
- 2-amino-4-morpholino-6-(4-acetanilide) pteridine,
- 2-amino-4-morpholino-6-(3-acetanilide) pteridine,
- 2-amino-4-morpholino-6-(4-aminophenyl) pteridine,
- 2-amino-4-morpholino-6-(3-aminophenyl) pteridine,
- 2-amino-4-morpholino-6-(4-benzoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(4-phenoxyacetylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(4-propionylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(4-furoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(4-cyclohexanoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-[4-(4-chlorobenzoyl)aminophenyl] pteridine;
- 2-amino-4-morpholino-6-(4-benzyloxyacetylaminophenyl) pteridine,
- 2-amino-4-morpholino-6-(4-isonicotinoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(4-naphtoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(4-methylsulfonylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(4-ethylsuccinylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-[4-(4-methylbenzoate)aminophenyl) pteridine;
- 2-amino-4-morpholino-6-(3-benzoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(3-benzensulfonylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(3-phenoxyacetylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(3-isonicotinoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(3-cyclohexanoylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-[3-(4-methylbenzoate)aminophenyl] pteridine;
- 2-amino-4-morpholino-6-(3-ethylsuccinylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(3-ethylmalonylaminophenyl) pteridine;
- **-** 2-amino-4-morpholino-6-(3-benzyloxyacetylaminophenyl) pteridine;
- 2-amino-4-morpholino-6-(3-ethylsulfonylaminophenyl)pteridine,

- 2-amino-4-morpholino-6-[3-Boc-(L)-phenylalanine-aminophenyl] pteridine;
- 2-amino-4-morpholino-6-[3-Boc-(D)-phenylalanine-aminophenyl] pteridine;
- 2-amino-4-morpholino-6-[3-Boc-(L)-tryptophane-aminophenyl] pteridine;
- 2-amino-4-morpholino-6-[3-Boc-(D)-tryptophane-aminophenyl] pteridine,
- 2-amino-4-morpholino-6-(4-hydroxyphenyl) pteridine,
- 2-amino-4-morpholino-6-(4-ethoxyphenyl) pteridine;
- 2-amino-4-morpholino-6-(4-benzyloxyphenyl) pteridine;
- 2-amino-4-morpholino-6-(4-(phenethyloxy)-phenyl) pteridine;
- 2-amino-4-morpholino-6-(4-phenoxy-butyronitrile) pteridine;
- 2-amino-4-morpholino-6-(4-propoxy-phenyl) pteridine;
- 2-amino-4-morpholino-6-(4-phenoxy-butyric acid ethyl ester) pteridine;
- 2-amino-4-morpholino-6-(4-phenoxy-acetic acid ethyl ester) pteridine
- 2-amino-4-morpholino-6-(4-(2-methoxyethoxy)-phenyl) pteridine; and
- 2-amino-4-morpholino-6-(4-butoxy-phenyl)-pteridine.